

Form PTO-1449 (REV. 7-80)		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket No. 11535	Serial No. 09/100,812
LIST OF PRIOR ART CITED BY APPLICANT				JUN 25 2002 PATENT AND TRADEMARK OFFICE SEARCHED	
(Use several sheets if necessary)				Applicant Michael Wayne Graham	
				Filing Date June 19, 1998	Group 1633 <i>1636</i>

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EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
SL	5,714,323	2/3/98	Oshima, et al.	435	6	3/11/1994
SL	5,686,649	11/11/97	Chua, et al.	800	278	1/19/1995
SL	5,583,021	12/10/96	Dougherty, et al.	435	440	7/7/1994
SL	5,034,323	7/23/91	Jorgensen, et al.	435	440	4/17/1991
SA	5,231,020	7/27/93	Jorgensen, et al.	435	440	3/29/1990
SA	5,283,184	2/1/94	Jorgensen, et al.	800	278	1/19/1995
SL						

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
SL	WO 99/32619	7/1/99	PCT WIPU				
CA	WO 95/10607	4/20/95	PCT WIPU				
CA	WO 98/44138	10/8/98	PCT WIPU				
SA	WO 96/08558	3/21/96	PCT WIPU				
SL	EP 0560156A2	9/15/93	EPO				
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SL	Fire, A., Xu, S.Q., Montgomery, M.K. Kostas, S.A. Driver, S.E. and Mello, C.C. (1998), "Potent and Specific Genetic Interference by Double-Standard RNA in <i>Caenorhabditis elegans</i> ". <i>Nature</i> , 391 (6669): 806-811
SL	Garrick, D., Fiering, S., Martin, D.I. and Whitelaw, E. (1998), "Repeat-Induced Gene Silencing in Mammals", <i>Nature Genetics</i> 18(1): 56-59
SL	Dorer, D.R. and Henikoff, S. (1997) Transgene Repeat Arrays Interact with Distant Heterochromatin and Cause Silencing in <i>cis</i> and <i>trans</i> ". <i>Genetics</i> 147(3)

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Gu	WO 98/36083	8/20/98	PCT WIPO				
St	WO 99/15682	4/1/99	PCT WIPO				
Sr	WO 97/01952	1/23/97	PCT WIPO				
St	WO 93/23551	11/25/93	PCT WIPO				
St	WO 94/17194	8/4/94	PCT WIPO				
	WO 93/17098	9/2/93	PCT WIPO				
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St	Bingham, P.M. (1997) "Cosuppression Comes to the Animals". <u>Cell</u> 90(3): 385-387
St	Cameron, F.H. and Jennings, P.A. (1991) "Inhibition of Gene Expression by a Short Sense Fragment". <u>Nucleic Acids Research</u> 19(3): 469-475
St	Engdahl, H.M., et al. (1997), "A Two Unit Antisense RNA Cassette Test System for Silencing of Target Genes", <u>Nucleic Acids Research</u> 25(16): 3218-3227
Gu	Katsuki, M., et al. (1988), "Conversion of Normal Behavior to Shiverer by Myelin Basic Protein Antisense cDNA in Transgenic Mice", <u>Science</u> 241(4865): 593-595

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Se	WO 90/11682	10/18/90	PCT W/PO				
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Se	Lee, R.C., et al. (1993), The C. elegans Heterochronic Gene lin-4 Encodes Small RNAs with Antisense Complementarity to lin-14". <u>Cell</u> 75: 843-854
Se	Moroni, M.C., et al. (1992) EGF-R Antisense RNA Blocks Expression of the Epidermal Growth Factor Receptor and Suppresses the Transforming Phenotype of a Human Carcinoma Cell Line. <u>Journal of Biological Chemistry</u> 267(4): 2714-2722
Se	Nellen, W. and Lichtenstein C. (1993), "What Makes a Messenger RNA Anti-Sensitive?" <u>Trends in Biochemical Sciences</u> 18(11): 419-423
Se	Anderson, W.F. (1998), "Human Gene Therapy", <u>Nature</u> 392 (suppl.): 25-30

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SC	Touehette, N. (1996), "Gene Therapy Not Ready for Prime Time (News)", <u>Nature Medicine</u> 2(1): 7-8
SC	Verma, I. M., et al. (1997), "Gene Therapy Promises, Problems and Prospects", <u>Nature</u> 389 (6648): 239-242
SC	Viville, S. (1997), "Mouse Genetic Manipulation Via Homologous Recombination" In: "Transgenic animals: Generation and Use", Houdebine, L. M., ed. Harwood Academic Publishers, France 307-321
SC	Wall, R. J. (1996), "Transgenic Livestock: Progress and Prospects for the Future", <u>Theriogenology</u> 45(1): 57-68
SC	Angell, S. M., et al. (1997), "Consistent Gene Silencing in Transgenic Plants Expressing a Replicating Potato Virus X RNA", <u>The EMBO Journal</u> 16(12): 3675-3684

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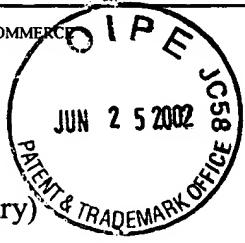
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S	Assaad, F.F., et al. (1993), "Epigenetic Repeat-Induced Gene Silencing (RIGS) in Arabidopsis. <u>Plant Molecular Biology</u> 22(6): 1067-1085
S	Balandin, T., et al. (1997), "Silencing of a β -1-3-glucanase Transgene is Overcome During Seed Formation", <u>Plant Molecular Biology</u> 34(1) 125-137
S	Baulcombe, D.C. (1996) RNA as a Target and an Initiator of Post-Transcriptional Gene Silencing in Transgenic Plants". <u>Plant Molecular Biology</u> 32(1-2): 79-88
S	Cogoni, C., et al. (1994), "Suppression of Gene Expression by Homologous Transgenes", <u>Antonie Van Leeuwenhoek</u> 65(3): 205-209
S	Cogoni, C., et al. (1996), "Transgene Silencing of the al-1 Gene in Vegetative Cells of Neurospora is Mediated by a Cytoplasmic Effector and Does not Depend on DNA-DNA Interactions or DNA Methylation", <u>The EMBO Journal</u> 15(12): 3153-3163
S	Cogoni, C., et al. (1997), "Isolations of Quelling-Defective (qde) Mutants Impaired in Posttranscriptional Transgene-Induced Gene Silencing in Neurospora Crassa". <u>Proceeding of the National Academy of Sciences of the United States of America</u> 94(19): 10233-10238

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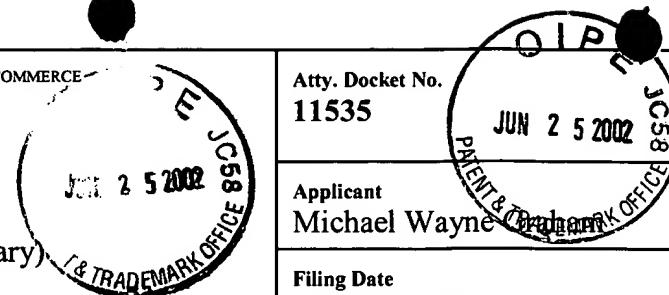
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<i>Sc</i>	Courtney-Gutterson, et al. (1994), "Modification of Flower Color in Florist's Chrysanthemum: Production of White-flowering Variety Through Molecular Genetics", <u>Biotechnology</u> 12(3): 268-271
<i>Sc</i>	de Carvalho F., et al. (1992), "Suppression of β -1,3-glucanase Transgene Expression in Homozygous Plants", <u>The EMBO Journal</u> 11(7): 2595-2602
<i>Sc</i>	de Carvalho Niebel, F. et al. (1995), "Post-transcriptional Cosuppression of β -1,3-glucanase Genes Does Not Effect Acculmulation of Transgene Nuclear mRNA", <u>The Plant Cell</u> 7(3): 347-358
<i>Sc</i>	De Lange, P., et al. (1995), "Suppression of Flavonoid Flower Pigmentation Genes in Petunia Hybrida by the Introduction of Antisense and Sense Genes", <u>Current Topics in Microbiology and Immunology</u> 197: 57-75

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<i>gk</i>	Depicker, A., et al. (1997), "Post-transcriptional Gene Silencing in Plants", <u>Current Opinion in Cell Biology</u> 9 (3): 373-382
<i>gk</i>	English, J.J., et al. (1996), "Suppression of Virus Accumulation in Transgenic Plants Exhibiting Silencing of Nuclear Genes", <u>The Plant Cell</u> 8 (2): 179-188
<i>gk</i>	Hamilton, A.J., et al. (1998), "A Transgene with Repeated DNA Causes High Frequency, Post-Transcriptional Suppression of ACC-Oxidase Gene Expression in Tomato", <u>The Plant Journal</u> 15 (6): 737-746
<i>gk</i>	Jorgensen, R. (1990), "Altered Gene Expression in Plants Due to Trans Interactions Between Homologous Genes", <u>Trends in Biotechnology</u> 8 (12): 340-344
<i>gk</i>	Jorgensen, R.A., et al. (1996), "Chalcone Synthase Cosuppression Phenotypes in Petunia Flowers: Comparison of Sense vs. Antisense Constructs and Single-Copy vs. Complex T-DNA Sequences", <u>Plant Molecular Biology</u> 31 (5): 957-973

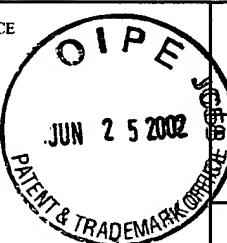
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SAC	Knoester, M., et al. (1997), "Modulation of Stress-Inducible Ethylene Biosynthesis by Sense and Antisense Gene Expression in Tobacco", <u>Plant Science</u> 126 (2): 173-183
SAC	Kunz, C., et al. (1996), "Developmentally Regulated Silencing and Reactivation of Tobacco Chitinase Transgene Expression", <u>The Plant Journal</u> 10 (3): 437-450
SAC	Lee, K.Y., et al., (1997), "Post-transcriptional Gene Silencing of ACC Synthase in Tomato Results from Cytoplasmic RNA Degradation", <u>The Plant Journal</u> 12 (5): 1127-1137
SAC	Lindbo, J.A., et al., (1993), "Induction of a Highly Specific Antiviral State in transgenic Plants – Implications for Regulation of Gene Expression and Virus Resistance", <u>The Plant Cell</u> 5 (12): 1749-1759
SAC	Matzke, M.A., et al. (1998), "Epigenetic Silencing of Plant Transgenes as a Consequence of Diverse Cellular Defence Responses", <u>Cellular and Molecular Life Sciences</u> 54 (1): 94-103

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S4	Mueller, E., et al. (1995), "Homology-dependent Resistance – Transgenic Virus Resistance in Plants Related to Homology-Dependent Gene Silencing", <u>The Plant Journal</u> 7(6): 1001-1013
S4	Meyer, P. (1996), "Repeat-induced Gene Silencing –Common Mechanisms in Plants and Fungi", <u>Biological Chemistry Hoppe-Seyler</u> 377(2): 87-95
S4	Napoli, C., et al. (1990), "Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible So-Suppression of Homologous Genes in trans", <u>The Plant Cell</u> 2(4): 279-289
S4	Palauqui, J.C., et al. (1997), "Systemic Acquired Silencing: Transgene-specific Post-transcriptional Silencing is Transmitted by Grafting from Silenced Stocks to Non-silenced scions", <u>The EMBO Journal</u> 16: 4738-4745
S4	Pang, S.Z., et al. (1997), "Nontarget DNA Sequences Reduce the Transgene Length Necessary for RNA-mediated Tospovirus Resistance in Transgenic Plants", <u>Proceedings of the National Academy of Sciences of the United States of America</u> 94(15): 8261-8266
S4	Park, Y.D., et al. (1996), "Gene Silencing Mediated by Promotor Homology Occurs at the Level of Transcription and Results in Meiotically Heritable Alterations in Methylation and Gene Activity", <u>The Plant Journal</u> 9(2): 183-194

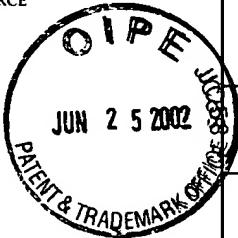
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Re	Que, Q., et al. (1998), "Homology-based Control of Gene Expression Patterns in Transgenic Petunia Flowers", <u>Developmental Genetics</u> 22(1): 100-109
Re	Romano, N., et al. (1992), "Quelling: Transient Inactivation of Gene Expression in <i>Neurospora Crassa</i> by Transformation with Homologous Sequences", <u>Molecular Microbiology</u> 6(22): 3343-3353
Re	Sadiq, M., et al. (1994), "Developmental Regulation of Antisense-mediated Gene Silencing in <i>Dictyostelium</i> ", <u>Antisense Research & Development</u> 4(4): 263-267
Re	Sijen, T., et al. (1996), "RNA-mediated Virus Resistance – Role of Repeated Transgenes and Delineation of Targeted Regions", <u>The Plant Cell</u> 8(12): 2277-2294
Re	Singer, M.J., et al. (1995), "Genetic and Epigenetic Inactivation of Repetitive Sequences in <i>Neurospora Crassa</i> : RIP, DNA Methylation, and Quelling", <u>Current Topics in Microbiology and Immunology</u> 197: 165-177

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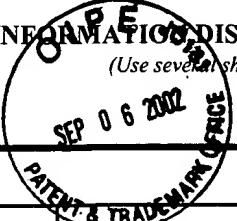
<i>Se</i>	Smyth, D.R. (1997), "Gene Silencing: Cosuppression at a Distance", <u>Current Biology</u> 7(12): R793-795
<i>Se</i>	Stam, M., et al. (1997), "The Silence of Genes in Transgenic Plants", <u>Annals of Botany</u> 79(1): 3-12
<i>Se</i>	Tanzer, M.M., et al. (1997), "Characterization of Post-Transcriptionally Suppressed Transgene Expression that Confers Resistance to Tobacco Etch Virus Infection in Tobacco", <u>The Plant Cell</u> 9(8): 1411-1423
<i>Se</i>	Van der Krol, et al. (1990), "Inhibition of Flower Pigmentation by Antisense CHS Genes: Promoter and Minimal Sequence Requirements for the Antisense Effect", <u>Plant Molecular Biology</u> 14(4): 457-466
<i>Se</i>	Van der Krol, et al. (1990), "Flavonoid Genes in Petunia: Addition of a Limited Number of Gene Copies May Lead to a Suppression of Gene Expression", <u>The Plant Cell</u> 2(4): 291-299
<i>Se</i>	Vacheret, H. Nussaume, et al. (1997), "A Transcriptionally Active State is Required for Post-Transcriptional Silencing (Cosuppression) of Nitrate Reductase Host Genes and Transgenes", <u>The Plant Cell</u> 9(8): 1495-1504

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<i>SL</i>	1)	Lisziewicz et al. (1993) "Inhibition of human immunodeficiency virus type 1 replication by regulated expression of a polymeric Tat activation response RNA decoy as a strategy for gene therapy in AIDS." <u>Proceedings of the National Academy of Sciences of the United States of America</u> 90: 8000-8004;				
<i>SL</i>	2)	Sun et al. (1995) "Resistance to human immunodeficiency virus type 1 infection conferred by transduction of human peripheral blood lymphocytes with ribozyme, antisense, or polymeric transactivation response element constructs". <u>Proceedings of the National Academy of Sciences of the United States of America</u> 92: 7272-7276;				
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<i>Gu</i>	3)	Gervais et al. (1997) "Multigene antiviral vectors inhibit diverse human immunodeficiency virus type 1 clades". <u>Journal of Virology</u> 71(4): 3048-3053;	
<i>Gu</i>	4)	Bevec et al. (1994) " Constitutive expression of chimeric Neo-Rev response element transcripts suppresses HIV-1 replication in human CD4+ T lymphocytes." <u>Human Gene Therapy</u> 5: 193-201;	
<i>Gu</i>	5)	Sullenger et al. (1990) "Overexpression of TAR sequences rendered cells resistant to human immunodeficiency virus replication". <u>Cell</u> 63: 8254-8264;	
<i>Gu</i>	6)	Dorer et al. (1994) " Expansion of transgene repeats cause heterochromatin formation and gene silencing in Drosophila". <u>Cell</u> 77: 993-1002;	
<i>Gu</i>	7)	Lee et al. (1994)"Inhibition of human immunodeficiency virus type 1 human T cells by a potent Rev response element decoy consisting of 13-nucleotide minimal Rev-binding domain". <u>Journal of Virology</u> 68(12): 8254-8264;	
<i>Gu</i>	8)	Chuah et al. (1994)"Inhibition of human immunodeficiencyvirus Type-1 by retroviral vectors expressing antisense- TAR". <u>Human Gene Therapy</u> 5: 1467-1475;	
<i>Gu</i>	9)	Sullenger et al. (1991 "Analysis of trans-acting response decoy RNA-mediated inhibition of human immunodeficiency virus type 1 transactivation". <u>Journal of Virology</u> 65(12): 6811-6816.	
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